ABSTRACT OF THE DISCLOSURE

An impedance controller that controls termination impedance of at least one output based on a reference value including a programmable reference impedance generator, at least one termination logic element, and an impedance matching controller. The programmable reference impedance generator develops a reference impedance controlled by a reference impedance control input. Each termination logic element includes a programmable termination impedance generator coupled to a corresponding output and controlled by termination impedance control input. The impedance matching controller continually adjusts the reference impedance control input to match the reference impedance with the reference value within a predetermined tolerance and generates the termination impedance control input based on the reference impedance control input.